

DERWENT-ACC-NO: 2005-494126

DERWENT-WEEK: 200550

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Rotary engine divided into an actuating chamber and a combustion chamber for discharging residual gas from the combustion chamber

INVENTOR: KIM, D H

PATENT-ASSIGNEE: KIM D H[KIMDI]

PRIORITY-DATA: 2003KR-0058930 (August 25, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2005021748 A	March 7, 2005	N/A	000	F02B 053/00

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
KR2005021748A	N/A	2003KR-0058930	August 25, 2003

INT-CL (IPC): F02B053/00

ABSTRACTED-PUB-NO: KR2005021748A

BASIC-ABSTRACT:

NOVELTY - PURPOSE: A rotary engine is provided to increase thermal efficiency by discharging residual exhaust gas through an exhaust port of a housing in moving gas of the actuating chamber into the combustion chamber in increasing pressure of the actuating chamber over pressure of exhaust gas. CONSTITUTION: A guide bar(36) is protruded in the center of a rotating body(6) in the lower plate of a cylindrical housing(2), and a supply port is formed from the top dead center to the bottom dead center between the upper guide plate and the lower guide plate. A rotating shaft(4) is integrally formed with the rotating body and contacted to the upper plate of the rotating body to penetrate and rotate the upper and lower plates of the housing and the guide bar. A pressure piston(10) is rotated and contacted to an eccentric surface with the top dead center and the bottom dead center of the guide bar, and a guide roller is moved along the guide passage. A combustion chamber(18) is formed in the front rotating body, and an ignition unit is formed between a suction valve(20) and an opening valve to ignite fuel at the top dead center. An exhaust chamber(28) is divided by the opening plate, and gas is discharged to an exhaust port(30) by decreasing friction with the inside of the exhaust chamber with the tail

part of the opening plate. Image 1/1

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: ROTATING ENGINE DIVIDE ACTUATE CHAMBER COMBUST CHAMBER
DISCHARGE
RESIDUE GAS COMBUST CHAMBER

DERWENT-CLASS: Q52

